

## Claims

1. A bio-implant having a length and a proximal and a distal end, said bio-implant comprising:

- 5                   (a)           at least two laminae of dielectric material joined together, thereby defining a boundary and also defining a side surface that is intersected by said boundary, and also defining a
- 10                                   nominal top surface that meets said side surface;
- (b)           at least one set of conductors interposed between said two laminae and extending lengthwise from said
- 15                                   proximal end toward said distal end, each one of said set of conductors being terminated at said side surface to form a set of conductor terminations; and
- 20                   (c)           a set of electrode contacts, each constructed on said side surface and extending over a portion of said nominal top surface, each said electrode contact contacting one of
- 25                                   said conductor terminations.

2. The bio-implant of claim 1 further being defined as helical in shape.

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electrode contact points take the form of conductive plating on said inward recesses.

4. The bio-implant of claim 1 wherein said conductor terminations abut said side surface.

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5. The bio-implant of claim 1 further comprising additional laminae and additional sets of conductors interposed between said additional laminae.

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6. A method of constructing a bio-implant having a length and a proximal and a distal end, said method comprising:

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(a) providing a first and second laminae of dielectric material, each said laminae defining a top surface, a laminae side surface and a bottom surface, a proximal end and a distal end;

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(b) providing at least one set of conductors positioned on said top surface of said first laminae, said conductors extending lengthwise from said proximal end toward said distal end, each one of said set of conductors being terminated adjacent to said side surface to form a set of conductor terminations;

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(c) adhering said top surface of said second laminae to said bottom surface of said first laminae about said set of conductors, thereby forming a work piece and defining a boundary and

also defining a joined side surface  
that is intersected by said boundary,  
and a work piece top surface that is  
said top surface of said first  
5 laminae; and

(d) forming a set of electrode contacts  
constructed on said joined side  
surface and also on said work piece  
top surface, each said electrode  
10 contact point contacting a one of  
said conductor terminations.

7. The method of claim 6, further including  
thermoforming said work piece into a helix defining a  
15 center line, about which said helix is substantially  
balanced.

8. The method of claim 7, wherein said nominal  
top surface forms a surface facing towards said center  
20 line of said helix.